

Course name: Current issues in fruit production

ECTS	4
Course status	<i>facultative</i>
Course final assessment /evaluation of outcomes	<i>exam</i>
Prerequisite	<i>basic principles of plant biology</i>

Main field of study:**Agriculture and Horticulture, Biology and Biotechnology (Erasmus+)**

Educational profile	<i>general academic</i>
Code of studies and education level	<i>bachelor/engineer (SI) or master of science (SM)</i>
Semester of studies	<i>Summer semester</i>
Language of instruction	<i>English</i>

Course offered by:

Name of faculty offering the course	Faculty of Biotechnology and Horticulture
Name of department offering the course	Department of Horticulture
Course coordinator	dr hab. Maciej Gaštoł, prof. URK

Learning outcomes:

Symbol of outcome	Description of the learning outcome	Reference to main field of study outcomes	Area symbol*
KNOWLEDGE – student knows and understands:			
CIFP_W1	basic physiological processes in fruit trees and environmental factors affecting them	OGR1_W02 OGR1_W04	R
CIFP_W2	methods and technologies used in fruit crops management	OGR1_W06	R
SKILLS – student is able to:			
CIFP_U1	plan, establish, and manage the orchard or small fruit plantation	OGR1_U08	R
CIFP_U2	choose the best suitable technology to reach success in orchard production	OGR1_U07	R
CIFP_U3	preserving fruit quality due to pre- and postharvest treatments, maintaining their storage potential	OGR1_U09	R
SOCIAL COMPETENCIES – student is ready to:			
CIFP_K1	Be responsible for condition of environment and its resources in relation to intensive agricultural production	OGR1_K03	R

Teaching contents

Lectures	15 hours		
Topics	<ol style="list-style-type: none"> 1. Fruit tree nursery production 2. Mycorrhizae and its implications 3. Organic fruit production 4. Postharvest technology of fruit crops 5. Viticulture in temperate climate zones 		
Accomplished learning outcomes	CIFP_W1-W2		
Means of verification, rules and criteria of assessment	<i>written test (50%)</i>		
Classes:	15 hours		
Topics	<ol style="list-style-type: none"> 1. Propagation of fruit trees - workshops 2. Mycorrhizal frequency assessment 3. Trellising and pruning trees 4. Terroir assessment 5. Field trip to the vineyard, winery, and fruit storage facilities 		

Accomplished learning outcomes	CIFP_U1-U3, CIFP_K1
Means of verification, rules and criteria of assessment	graded presentations after each topic or essay (50%)

References:

Basic	<i>Apples: Botany, Production and Uses. 2003. Ferree D.C., Warrington. CABI Publishing.</i>
Supplementary	<i>The Science of Grapevines: Anatomy and Physiology. 2010. Keller M. Academic Press Inc.</i>

Structure of learning outcomes

Area of academic study: R – Agricultural, forestry and veterinary sciences	4,0 ECTS **
--	-------------

Structure of student activity

Contact hours	34	hrs.	1.4	ECTS**
Including:	lectures	15	hrs.	
	classes and seminars	15	hrs.	
	consultations	2	hrs.	
	participation in research	...	hrs.	
	obligatory traineeships	...	hrs.	
	participation in examination	2	hrs.	
e-learning	...	hrs.	...	ECTS**
student own work	66	hrs.	2.6	ECTS**

*Areas of academic study in the fields of: H- humanities; S - social studies; P – biological sciences; T – technological sciences; M- medical, sport and health sciences; R – Agricultural, forestry and veterinary sciences; A – the arts

** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes